

PROJECT DESCRIPTION  
GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 65 (SHARPSBURG PIKE) AND MD 68 (LAPPANS ROAD) IN WASHINGTON COUNTY.

INTERSECTION OPERATION

A LOCAL CONTROLLER HOUSED IN A BASE MOUNTED CABINET SHALL BE INSTALLED AT THIS LOCATION. THE INTERSECTION WILL OPERATE IN A FULLY ACTUATED MODE USING 4 NEMA PHASES. FIREHOUSE PREEMPTION SHALL BE INSTALLED ON THE NORTHBOUND APPROACH OF MD 65. THE CONTROLLER CABINET SHALL BE PROVIDED WITH A MODEM FOR DIAL-UP COMMUNICATIONS. PRIOR TO COMPLETION OF THIS PROJECT THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT 410-898-7631 TO ARRANGE FOR THE PHONE LINE INSTALLATION.

SPECIAL NOTES

1. THE FOLLOWING CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

PROJECT CONTACTS:

MR. GEORGE SMALL, ASSISTANT DISTRICT ENGINEER - TRAFFIC  
PHONE: (301) 729-8444  
MR. JOHN TRUE, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION  
PHONE: (301) 729-8411  
MR. ANTHONY CRAWFORD, ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
PHONE: (301) 729-8457  
MR. BOB ROWAN, UTILITY ENGINEER  
PHONE: (301) 729-8439  
MR. RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION  
PHONE: (410) 787-7630  
MS. SHERRY STRUTHERS, ALLEGANY POWER SYSTEMS  
PHONE: (304) 367-3370

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

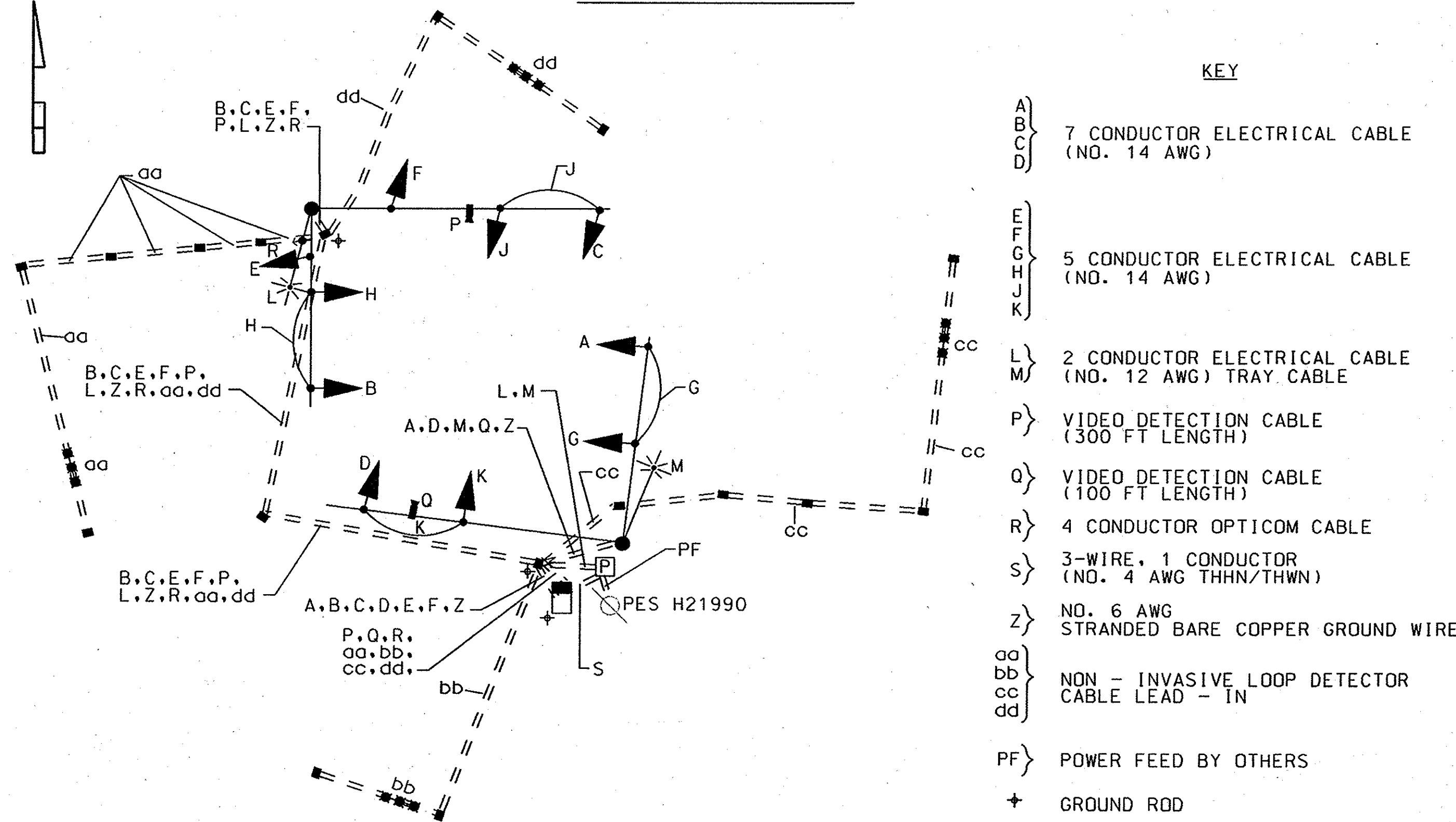
CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
971017	EIGHT PHASE (FULLY ACTUATED) CONTROLLER AND CABINET - BASE MOUNT, WITH VIDEO INTERFACE EQUIPMENT AND RACK MOUNTED AMPLIFIERS	EA	1
973023	SHEET ALUMINUM SIGNS CONSISTING OF: R10-11b (24"x24") MAST ARM MOUNT D-3(1) (VAR.x16") MAST ARM MOUNT GUIDE SIGN SHIELD ASSEMBLY (24"x51"), POLE MOUNTED GUIDE SIGN SHIELD ASSEMBLY (36"x75"), POLE MOUNTED M3-2 (24"x12"), M1-5 (24"x24"), M6-1 (21"x15"), GROUND MOUNTED M3-4 (30"x15"), M1-5 (36"x36"), M6-1 (30"x24"), GROUND MOUNTED M3-2 (30"x15"), M1-5 (36"x36"), M6-1 (36"x24"), GROUND MOUNTED M3-4 (24"x12"), M1-5 (24"x24"), M6-1 (21"x15"), GROUND MOUNTED	SF EA EA EA EA EA EA EA EA	145 1 4 2 2 1 1 1 1

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
203030	TEST PIT EXCAVATION	CY	2
585624	24 INCH HEAT APPL. WHITE PERMANENT PREFORMED THERMO. PAVEMENT MARKING	LF	80
800000	REMOVE AND DISPOSE OF EXISTING EQUIPMENT	LS	1
801004	CONCRETE FOR SIGNAL FOUNDATIONS	CY	10
802501	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	150
805115	3 INCH SCHED 80 PVC CONDUIT - BORED	LF	200
805155	4 INCH SCHED. 80 PVC CONDUIT-SLOTTED	LF	150
805125	2 INCH SCHED 80 PVC CONDUIT - TRENCHED	LF	1025
805135	3 INCH SCHED. 80 PVC CONDUIT-TRENCHED	LF	30
805140	4 INCH SCHED 80 PVC CONDUIT - TRENCHED	LF	20
805145	2 INCH SCHED 80 PVC CONDUIT - SLOTTED	LF	180
807202	200 AMP METERED SERVICE PEDESTAL	EA	1
810601	NONINVASIVE DETECTOR 500 FT. LEAD IN CABLE	EA	4
811001	FURNISH AND INSTALL ELECTRICAL HANDHOLE	EA	17
812003	WOOD SIGN SUPPORT 6 INCH X 8 INCH	LF	40
813014	INSTALL GROUND MOUNTED SIGN	SF	51
813015	INSTALL OVERHEAD SIGN	SF	94
816001	VIDEO DETECTION CAMERA	EA	2
800000	CONTROL CABLE, 100 FOOT VIDEO DETECTION CAMERA TO CONTROLLER	EA	1
800000	CONTROL CABLE, 300 FOOT VIDEO DETECTION CAMERA TO CONTROLLER	EA	1
816201	DISCRIMINATOR MODULE, 4 CHANNEL, NO. 764	EA	1
816215	OPTICOM NO. 721 DETECTOR EYE	EA	1
818050	STEEL POLE WITH TWIN 50 FOOT AND 60 FOOT MAST ARMS	EA	2
831010	250 WATT HPS LAMP AND LUMINAIRE WITH PHOTOCCELL	EA	2
837001	GROUND ROD - 3/4 INCH DIA. X 10 FOOT LENGTH	EA	3
800000	8 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION	EA	6
860284	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION	EA	24
860288	FURNISH AND INSTALL 4 CONDUCTOR OPTICOM CABLE	LF	190
860292	CUT, CAP, CLEAN, AND GALVANIZE TRAFFIC SIGNAL STRUCTURE	EA	2
861107	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	500
861108	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)	LF	620
861116	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG)	LF	300
861117	ELECTRICAL CABLE - 3 WIRE, 1 CONDUCTOR (NO.4 AWG)	LF	20
866103	15 FT. LIGHTING BRACKET ARM FOR SIGNAL STRUCTURE	EA	2
871202	INSTALL CONTROLLER AND CABINET - BASE MOUNT	EA	1

C. SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILLIARY EQUIPMENT FROM THE CONTROLLER CABINET. CONTACT ED RODENHIZER AT (410) 787-7650 AT LEAST 72 HOURS PRIOR TO REMOVAL OF EXISTING CONTROLLER TO ARRANGE FOR PICKUP. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

WIRING DIAGRAM



PHASE CHART

	1	2	3	4	5	6	7	8	9	10	
	O C	R G	R G	R Y	R G	R G	R G	R G	R Y	R G	
PHASE 2 AND 6	G	G	G	G	G	R	R	R	R	R	←
2 AND 6 CHANGE	Y	Y	Y	Y	Y	R	R	R	R	R	→
PHASE 4 AND 8	R	R	R	R	R	G	G	G	G	G	↑
4 AND 8 CHANGE	R	R	R	R	R	Y	Y	Y	Y	Y	↓
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	↕
FIREHOUSE PRE-EMPTION	G	G	G	G	G	R	R	R	R	R	←

SG-02

**SHA** MARYLAND DOT - STATE HIGHWAY ADMINISTRATION  
Office of Traffic & Safety  
TRAFFIC ENGINEERING DESIGN DIVISION  
GENERAL INFORMATION PLAN  
MD 65 AT MD 68  
INTERSECTION GEOMETRIC IMPROVEMENTS

DRAWN BY: M. RAFFLE	F.A.P. NO. S.H.A. NO. COUNTY: LOG MILE: 21006506.80	SEE TITLE SHEET WAI425176 WASHINGTON	TS NO. I201 B	SHEET NO. 33 OF 48
CHECKED BY: K. RINKER	SCALE: NTS	T.I.M.S. NO. D-887		
DATE: OCTOBER 2006				

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